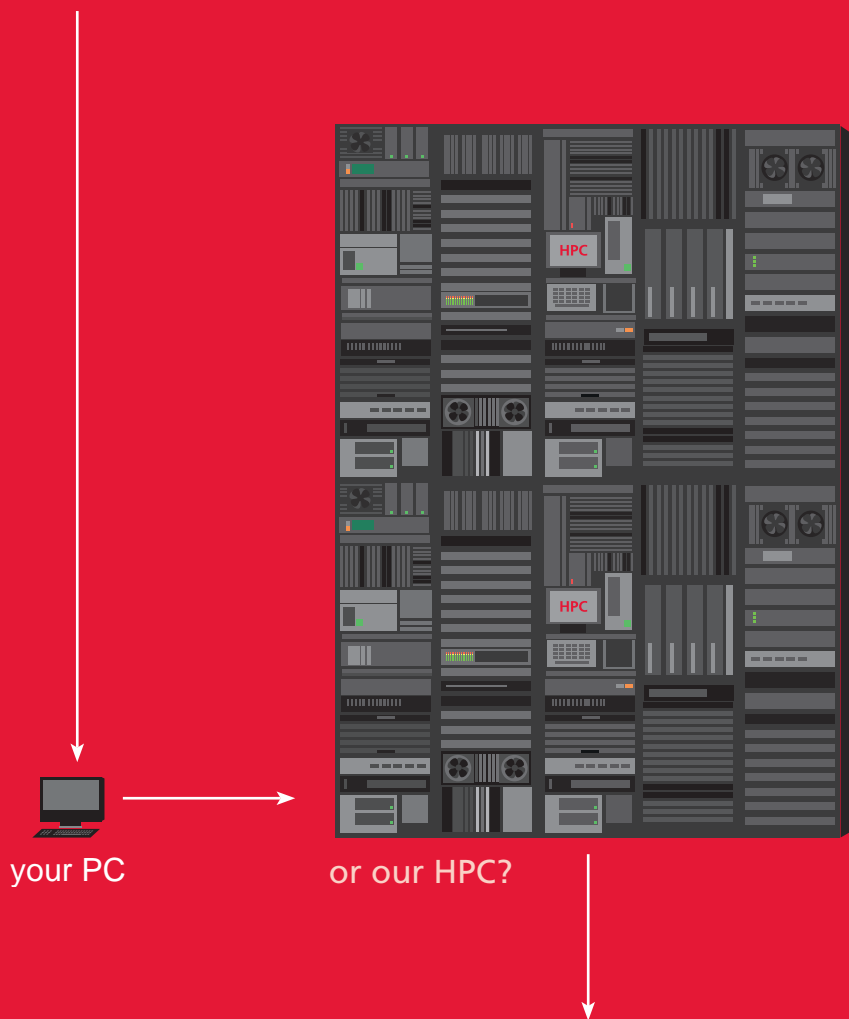


# WHICH COMPUTER WILL BE THE FIRST TO FINISH YOUR DATA ANALYSIS?



## HIGH PERFORMANCE COMPUTER COURSE

Learn how to use High Performance Computers

start  
January  
2016

Many researchers at UvA indicate that they encounter the physical ICT limitations during their work. Processing capacity, storage, visualisation, integration: all of these are limited at times. They know that upscaling to high performance computing facilities would be very beneficial to their work, but don't know how to do this and lack the time to investigate their options.

The following HPC facilities are available:

- **The Cartesius national supercomputer**

Cartesius is for problems that require a very large amount of memory combined with extremely high processing power. Using Cartesius requires parallel implementation so that multiple processors can be deployed simultaneously. Cartesius also has very large and fast file systems.

- **The Lisa national cluster**

Lisa was designed for modest parallel jobs and is therefore not as well suited to jobs that set heavy demands on the speed of the available file systems.

- **The Netherlands grid infrastructure**

The grid was designed to run numerous sequential jobs and has high-speed file systems.

- **The visualisation cluster**

The visualisation cluster was designed for the – remote – visualisation of data sets. The visualisation cluster has GPUs for rendering. It is also possible to visualise datasets on the national supercomputer directly.

- **The HPC cloud infrastructure**

The HPC cloud is a cluster that can be used by HPC users to solve problems that cannot be handled by the other facilities, such as running persistent services or using Windows.

- **The Hadoop infrastructure**

Hadoop was designed to run data-intensive applications (PetaBytes), with the framework providing the required data parallelism.

## THE HIGH PERFORMANCE COMPUTER COURSE

In the month of January, **UvA** and **SURFsara** will organize HPC courses for all UvA re-searchers and students to help them find their way to all supercomputing resources available. There, you can learn how to use Cartesius, Lisa, the Netherlands grid, visu-alisation, HPC Cloud and Hadoop.

There are 11 courses, 1 of them theoretical, 10 of them hands-on. Students can earn 6 ECTS by following all theoretical courses and a selection of the hands-on courses. Students may enroll for free. Researchers must pay a €100 enrollment fee, participants from outside the academic sector must pay € 3000 enrollment fee.

**Taking these courses will save you both money and time!**

See the promotional film and register at [hpc.uva.nl](http://hpc.uva.nl). If you have any further questions, please contact Boy Menist at: [b.n.j.menist@uva.nl](mailto:b.n.j.menist@uva.nl)

